

## ABSTRACT:

The invention relates to a device for controlling the phases of a charge pump 20, which device includes a phase generator 9 and a charge pump that is provided with a plurality of stages 1, 2. The invention also relates to a driver circuit for driving a display device with a charge pump and a phase generator, and to a display device with a driver circuit and a charge pump and a phase generator. In order to enable optimum adjustment of the delays between the individual phases P1 to P4 for the control of a charge pump and also to enable a response to disturbances that are caused by changes of the load or the temperature, signals 14 to 17 are fed back from the charge pump to a phase generator 9 so that the phases are started only when the appropriate conditions or states of the other phases exist.

Fig. 1